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1 REMARKS

2 These remarks follow the order of the paragraphs of the office action. Relevant portions of the
3 office action are shown indented and italicized.

4 *Claim Objections*

5 1. Claim 26 objected to because of the following
6 informalities: it does not exist. Appropriate correction is
7 required.

8 In response, applicants respectfully state that claim 26 is canceled herewith.

9 2. Claim 9 objected to because of the following informalities:
10 page 11, line 13 "requester;" should read "requester."
11 Appropriate correction is required.

12 In response, applicants respectfully state that claim 9 is canceled herewith.

13 3. Claim 14 objected to because of the following
14 informalities: pg.12, lines 8 "registry;" should read
15 "registry.". Appropriate correction is required.

16 In response, applicants respectfully state that claim 14 is canceled herewith.

17 4. Claim 18 objected to because of the following
18 informalities: pg.13, lines 7 "Proxy;" should read "Proxy."
19 Appropriate correction is required.

20 In response, applicants respectfully state that claim 18 is canceled herewith.

21 *Claim Rejections - 35 USC § 102*

22 1. The following is a quotation of the appropriate paragraphs
23 of 35 U.S.C. 102 that form the basis for the rejections under
24 this section made in this Office action:

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1 A person shall be entitled to a patent unless (e) the invention was described
2 in (1) an application for patent, published under section 122(b), by another
3 filed in the United States before the invention by the applicant for patent or
4 (2) a patent granted on an application for patent by another filed in the United
5 States before the invention by the applicant for patent, except that an
6 international application filed under the treaty defined in section 351(a) shall
7 have the effects for purposes of this subsection of an application filed in the
8 United States only if the international application designated the United States
9 and was published under Article 21 (2) of such treaty in the English language.

10 2 Claim 1-7, 9-16, and 18-27 rejected under 35 USe. 102(e) as
11 being unpatentable by US 2002/0194498 to Blight et al. Regarding
12 claim 1, Blight et al. teaches a method comprising a requester
13 discovering at least one service in a local domain, including the
14 steps of: obtaining an address of a proxy serving as a Service
15 Discovery Proxy for said local domain (page 2, section 0017 and
16 page 4, section 0067 and page 5, section 0110-0113); establishing
17 a connection to said Service Discovery Proxy; and employing said
18 Service Discovery Proxy in discovering dynamic availability of
19 said at least one service in said local domain (page 1, section
20 0016 and page 4, section 0075-0087 and 0104 and page 7, section
21 0205-0221).

22 In response, applicants respectfully state that although there is no agreement that Blight et al.,
23 anticipates the present invention, the independent claims are amended such as to include the
24 limitations of allowable [objected to] claims. Thus, claim 1 is amended to include the limitation
25 of claim 9. Claims 10 and 11 are amended to depend on claim 1. Claim 13 is amended to include
26 the limitation of claim 14. Claim 15 is amended to include the limitation of claim 18. Claims 9,
27 14, 18 and 26 are canceled.

28 This amendment brings claims 1-8, 10-13, 15-17, 19-25, and 27 to allowance in as much as each
29 is, or is dependent upon, an allowable claim, besides not being anticipated or made obvious by
30 the cited art.

31 Regarding claim 13, Blight et al. teaches a method comprising
32 forming a Service Discovery Proxy including the steps of:
33 assigning an available proxy to represent a local domain;
34 establishing a connection between said available proxy and a

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1 network (page 2, section 0017); and registering said available
2 proxy as the Service Discovery Proxy representing the local
3 domain (page 5, section 0110-0113 and 0143 and page 7, section
4 0212-0220).

5 Regarding claim 15, Blight et al. teaches a Service Discovery
6 Proxy comprising; a network communication module having an
7 assigned communication address (page 3, section 0044), a service
8 detector module to detect dynamically available services in a
9 local domain represented by said proxy (page 2, section 0017); a
10 processing module to process at least one incoming query from a
11 requester regarding availability of at least one service (page 4,
12 section 0075-0087 and 0104 and page 5, section 0110-0133); and a
13 responding module to form outgoing responses to said at least one
14 incoming query allowing discovery of any of said dynamically
15 available services by said requester (page 7, section 0205-0221).
16 Regarding claim 2, Blight et al. teaches a method as recited in
17 claim 1, further comprising employing one service from said at
18 least one service (page 1, section 0001 and page 4, section 0087
19 and page 5, section 0128-0133).

20 Regarding claim 3, Blight et al. teaches a method as recited in
21 claim 1, wherein the step of obtaining includes: contacting a
22 central registry having addresses for a plurality of Service
23 Discovery Proxies; and selecting the address of a particular
24 Service Discovery Proxy serving the local domain (page 2, section
25 0017 and page 5, section 0111-0113 and page 7, section 0212
26 0215).

27 Regarding claim 4, Blight et al. teaches a method as recited in
28 claim 1, wherein the step of establishing includes employing said
29 address in accordance with a transmission protocol (page 3,
30 section 0045-0049 and page 4, section 0067 and 0101).

31 Regarding claim 5, Blight et al. teaches a method as recited in
32 claim 4, wherein the transmission protocol is TCP/IP (page 4,
33 section 0067).

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1 Regarding claim 6, Blight et al. teaches a method as recited in
2 claim 1, wherein the step of employing includes querying said
3 Service Discovery Proxy for a list of services currently active in
4 said local domain (page 4, section 0104 and page 5, section
5 0110-0125).

6 Regarding claim 7, Blight et al. teaches a method as recited in
7 claim 1, wherein said requester provides a list of services for
8 which status is queried to said Service Discovery Proxy (page 4,
9 section 0075-0087 and page 5, section 0110-0133).

10 Regarding claim 9, Blight et al. teaches a method as recited in
11 claim 1, wherein the step of employing includes: said Service
12 Discovery Proxy receiving a request from said requester for
13 service discovery; said Service Discovery Proxy invoking a
14 service discovery protocol in said local domain; customizing
15 responses from services in said .local domain; and said Service
16 Discovery Proxy sending customized responses to said requester
17 (page 2, section 0017 and page 7, section 0205-0221).

18 Regarding claim 10, Blight et al. teaches a method as recited in
19 claim 9, wherein the step of customizing includes at least one
20 function taken from a group of functions including: formatting;
21 filtering; aggregating; encapsulating; segmenting; selecting, and
22 a requester defined function (page 5, section 0137).

23 Regarding claim 11, Blight et al. teaches a method as recited in
24 claim 9, wherein the service discovery protocol includes Service
25 Location Protocol (page 3, section 0045-0049 and page 4, section
26 0067 and 0101).

27 Regarding claim 12, Blight et al. teaches a method as recited in
28 claim 1, wherein the step of employing includes receiving
29 information enabling said requester to utilize said at least one
30 service (page 1, section 0001 and page 4, section 0087 and page
31 5, section 0128-0133).

32 Regarding claim 14, Blight et al. teaches a method as recited in
33 claim 13, wherein the step of registering is performed employing

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1 a central registry (page 2, section 0017 and page 5, section
2 0111-0113 and 0143 and page 7, section 0212-0214).

3 Regarding claim 16, Blight et al. teaches a proxy as recited in
4 claim 15, wherein said communication address exists in a
5 central registry to allow said proxy to be accessed from a
6 plurality of requesters (page 2, section 0017 and page 4, section
7 0067 and page 5, section 0111 0113 and 0142 and page 7, section
8 0212-0214).

9 Regarding claim 18, Blight et al. teaches a proxy as recited in
10 claim 15, wherein said network communication module obtains
11 an assigned network communication address ITom a network
12 address assigning entity; and registers said assigned network
13 communication address with a central registry as a Service
14 Discovery Proxy (page 2, section 0017 and page 4, section 0067 and
15 page 5, section 0111-0113 and 0142 and page 7, section
16 0212-0214).

17 Regarding claim 19, Blight et al. teaches a proxy as recited in
18 claim 15, wherein said service detector module communications
19 functionality from a group of functionalities including: supports
20 at least one at least one physical communication media; at least
21 one link protocol; at least one network protocol; at least one
22 transmission protocol; at least one service discovery protocol;
23 receiving service queries ii-om said processing module;
24 determining an appropriate communication protocol to be used;
25 performing service discovery in accordance with a selected
26 service discovery protocol; and any combination of these (page 3,
27 section 0045-0049 and page 4, section 0067 and 0075 and 0087 and
28 0101).

29 Regarding claim 20, Blight et al. teaches a proxy as recited in
30 claim 15, wherein said service detector module determines all
31 appropriate communication protocol to use (page 3, section
32 0045-0049 and page 4, section 0067 and 0101).

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1 Regarding claim 21, Blight et al. teaches a proxy as recited in
2 claim 15, wherein said processing module performs a function
3 taken from a group of functions including: querying the
4 availability of at least one service; querying all available
5 services; querying the employment of said service; interpreting
6 said query and invoking service detector module; and any
7 combination of these (page 4, section 0104 and page 5, section
8 0110-0125).

9 Regarding claim 22, Blight et al. teaches a proxy as recited in
10 claim 15, wherein said responding module transmits said query
11 response to the requester (page 2, section 0017 and page 7,
12 section 0205-0221).

13 Regarding claim 23, Blight et al. teaches a proxy as recited in
14 claim 15, wherein said responding module aggregates a plurality
15 of query responses before transmitting a particular response to
16 the requester (page 4, section 0075 and 0087 and page 5, section
17 0110-0133).

18 Regarding claim 24, Blight et al. teaches an article of
19 manufacture comprising a computer usable medium having computer
20 readable program code means embodied therein for causing
21 requester discovery of a service, the computer readable program
22 code means in said article of manufacture comprising computer
23 readable program code means for causing a computer to effect the
24 steps of claim 1 (page 2, section 0017 and page 3, section 0044).

25 Regarding claim 25, Blight et al. teaches a program storage
26 device readable by machine, tangibly embodying a program of
27 instructions executable by the machine to perform method steps
28 for requester service discovery said method steps comprising the
29 steps of claim 1 (page 2, section 0017 and page 3, section 0044).

30 Regarding claim 27, Blight et al. teaches a computer program
31 product comprising a computer usable medium having computer
32 readable program code means embodied therein for causing
33 functions of a Service Discovery Proxy, the computer readable
34 program code means in said computer program product comprising

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1 computer readable program code means for causing a computer to
2 effect the functions of claim 15 (page 2, section 0017 and page
3 3, section 0044).

4 **Claim Rejections - 35 use § 103**

5 3. The following is a quotation of 35 U.S.C. 103(a) which forms
6 the basis for all obviousness rejections set forth in this Office
7 action: (a) A patent may not be obtained though the invention is not
8 identically disclosed or described as set forth in section 102 of this title, if
9 the differences between the subject matter sought to be patented and the prior
10 art are such that the subject matter as a whole would have been obvious at the
11 time the invention was made to a person having ordinary skill in the art to
12 which said subject matter pertains. Patentability shall not be negated by the
13 manner in which the invention was made.

14 4. Claims 8 and 17 rejected under 35 U.S.C. 103(a) as being
15 unpatentable over US 2002/0194498 to Blight et al. in view of
16 Murphy et al.

17 Regarding claim 8, Blight et al. teaches a method as recited in
18 claim 7 (page 4, section 0075-0087 and page 5, section
19 0110-0133). Blight does not teach dynamically updating the list
20 of services currently active in said local domain without
21 registering any of said services with a central registry. Murphy
22 et al. teaches further comprising dynamically updating the list of
23 services currently active in said local domain without
24 registering any of said services with a central registry
25 (abstract, column 4, lines 19-32 and column 6, line 59-column 7,
26 line 5). Therefore it would have been obvious to one of ordinary
27 skill in the art at the time the invention was made to further
28 modify the mobile communication system for location aware
29 services of Blight et al. by dynamically updating the list of
30 services currently active in said local domain without
31 registering any of said services with a central registry because
32 this creates a more global system and relieves the registry of
33 having to keep up to date information on each service.

34 Regarding claim 17, Blight et al. teaches a proxy as recited in
35 claim 15 (page 7, section 0205-0221). Blight et al. does not

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1 teach establishes a listening poli for incoming queries; and
2 communicates with a plurality of requesters with a transmission
3 protocol. Murphy et al teaches wherein said network communication
4 module further: establishes a listening poli for incoming
5 queries; and communicates with a plurality of requesters with a
6 transmission protocol (column 4, lines 11-18). Therefore it would
7 have been obvious to one of ordinary skill in the art at the time
8 the invention was made to further modify the mobile communication
9 system for location aware services of Blight et al. by
10 establishes a listening poli for incoming queries; and
11 communicates with a plurality of requesters with a transmission
12 protocol because the proxy will be able to receive all queries
13 that are trying to be submitted regardless of any obstruction
14 such as a firewall.

15 This amendment brings claims 1-8, 10-13, 15-17, 19-25, and 27 to allowance. Claims 9, 14, 18
16 and 26 are canceled. A listing of the claims is provided as required in the new USPTO
17 amendment practice per 37 CFR 1.121.

18 It is anticipated that this amendment brings the application to allowance of all but the canceled
19 the claims. Favorable action is respectfully solicited. In the unlikely event that any claim
20 remains rejected, please contact the undersigned by phone in order to discuss the application.

21 Please charge any fee necessary to enter this paper to deposit account 09-0468.

22 Respectfully submitted,

23 By: 
24 Dr. Louis P. Herzberg
25 Reg. No. 41,500
26 Voice Tel. (914) 945-2885
27 Fax. (914) 945-3281

28 IBM CORPORATION
29 Intellectual Property Law Dept.
30 P.O. Box 218
31 Yorktown Heights, New York 10598

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